KONFIGURATIONS-
ANLEITUNG
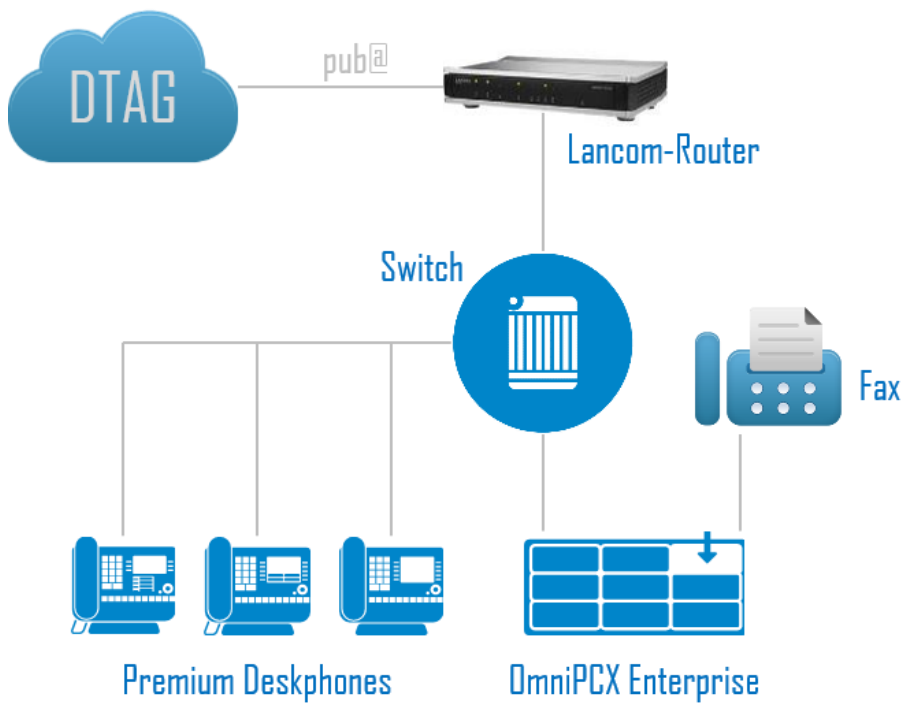
Alcatel-Lucent OmniPCX Enterprise *im Zusammenspiel mit*
LANCOM 1783VA Business VoIP VPN Router

Edition 01: Oktober 2018
Edition 02: *Dezember 2018*

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Alcatel-Lucent Enterprise freut sich, die Verifikation der LANCOM VoIP-VPN-Business Router mit der OmniPCX Enterprise bekannt zu geben.

Diese Anleitung soll helfen, den Einrichtungsprozess für die OmniPCX Enterprise zu vereinfachen, wenn sie mit den Lancom-Routern verbunden ist.

Getestete Topologie:

Konfigurationshinweise
OmniPCX Enterprise

Mindest-Releasestand:

Alcatel-Lucent OmniPCX Enterprise Release 12.1 - Version m2.300.18d oder neuer

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SIP Trunk-Konfiguration:

```
lqReview/Modify: Trunk Groupsqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                            x
x              Node Number (reserved) : 101                                  x
x                     Trunk Group ID : 10                                    x
x                                                                            x
x              Trunk Group Type + T2                                         x
x              Trunk Group Name : SIP-DT                                     x
x         UTF-8 Trunk Group Name : ----------------------------------------- x
x         Number Compatible With : -1                                        x
x                 Remote Network : 15                                        x
x            Shared Trunk Group + False                                      x
x              Special Services + Nothing                                    x
x                    Node number : 1                                         x
x         Transcom Trunk Group + False                                       x
x        Auto.reserv.by Attendant + False                                    x
x        Overflow trunk group No. : -1                                       x
x               Tone on seizure + False                                      x
x           Private Trunk Group + False                                      x
x          Q931 Signal variant + ISDN all countries                         x
x           SS7 Signal variant + No variant                                 x
x        Number Of Digits To Send : 0                                        x
x         Channel selection type + Quantified                               x
x Auto.DTMF dialing on outgoing call + NO                                    x
x                T2 Specification + MINI SIP                                 x
x  Homogenous network for direct RTP + NO                                    x
x            Public Network COS : 31                                         x
x              DID transcoding + True                                        x
x        Can support UUS in SETUP + True                                     x
x        Associated Ext SIP gateway : -1                                     x
x                                                                            x
x                     Implicit Priority                                      x
x                                                                            x
x            Activation mode : 0                                             x
x            Priority Level : 0                                              x
x                                                                            x
x                     Preempter + NO                                         x
x   Incoming calls Restriction COS : 10                                      x
x   Outgoing calls Restriction COS : 10                                      x
x        Callee number mpt1343  + NO                                         x
x              Overlap dialing + YES                                         x
x        Call diversion in ISDN + NO                                         x
x                                                                            x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

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T2-Spezifikation: MINI SIP – nur 4 Kanäle ansonsten SIP für mehr Kanäle

```
lqReview/Modify: Trunk Groupqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                      x
x            Node Number (reserved) : 101                              x
x                    Trunk Group ID : 10                               x
x                Instance (reserved) : 1                               x
x                                                                      x
x                   Trunk Group Type + T2                              x
x                   T2 Specification + MINI SIP                        x
x                 Public Network Ref. : ------                         x
x          VG for non-existent No. + YES                               x
x                     Entity Number : 1                                x
x             Supervised by Routing + NO                               x
x     VPN Cost Limit for Incom.Calls : 0                               x
x Immediate Trk Listening if VPNCall + YES                             x
x                          VPN TS % : 50                               x
x                  CSTA-Monitored + NO                                 x
x          Max.% of trunks out CCD : 0                                 x
x          Ratio analog.to ISDN cost : ------                         x
x         TS Distribution on Accesses + YES                            x
x  Quality profile for voice over IP + Profile #1                      x
x           Use of volume in system + YES                              x
x          Announcement for dial tone + NO                             x
x          Announcement for Ring tone + NO                            x
x  Reroute Anonymous Calls to Entity + NO                              x
x            Called Number Storage + NO                                x
x             End-to-end dialing  + NO                                 x
x          DTMF end-to-end signal. + NO                                x
x         Trunk group used in DISA + NO                                x
x                  DISA Secret Code : ----                             x
x             Routing To Manager + NO                                  x
x                      Trunk COS : 31                                  x
x          Sending of Progress message + YES                           x
x         No. of digits unused (ISDN) : 0                              x
x                B Channel Choice + YES                                x
x Channels: Attendant Control (Rsvd) : 0                               x
x   Redirection For ACD (Dissuasion) + NO                              x
x                    DTO joining + NO                                  x
x      Consultation Call On B Channel + NO                             x
x               Automated Attendant + NO                               x
x          Calling party Rights COS : 0                                x
x                   TS Overflow + YES                                  x
x             Number To Be Added : ---------                           x
x    Charge Calling And ADN Creation + NO                              x
x                 Logical Channel + 1__15 & 17__31                     x
x             Use Split Access + NO                                    x
x      Heterogeneous Remote Network + NO                               x
x  COS Restrictions - Barring mode  + Not Restricted / Not barred      x
x             ARS Class of service : 31                                x
x          External Access Server + NO                                 x
x           CSTA Tracking MCDU Trk : ---------                         x
x             IE External Forward + None                               x
x    Max ABCF-IP and SIP connections : 0                               x
x                                                                      x
 mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

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NPD:

```
lqReview/Modify: Numbering Plan Description (NPD)qqqqqqqqqqqqqqqqqqqqqqqk
x                                                                        x
x                Node Number (reserved) : 101                            x
x                     Instance (reserved) : 1                            x
x                     Instance (reserved) : 1                            x
x                Description identifier : 100                            x
x                                                                        x
x                                Name : SIP-DT                           x
x        Calling Numbering plan ident. + NPI/TON ISDN International      x
x         Called numbering plan ident. + NPI/TON ISDN International      x
x Authorize personal calling num use + False                            x
x               Install. number source + Entity source                  x
x               Default number source + Entity source                   x
x                 Called DID identifier : 0                              x
x     Calling/Connected DID identifier : 0                               x
x                                                                        x
    mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

DDI-Translator:

```
        lq[ 2 ] Instances: DID number translator rulesqk
        x                                               x
        x -> 492284225921100                            x
        x    492284225921500                            x
        x                                               x
        mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Entity:

```
lqReview/Modify: Entitiesqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                           x
x              Node Number (reserved) : 101                                 x
x                     Entity Number : 1                                     x
x                                                                           x
x                                Name : Lancom-Test                         x
x                          UTF-8 Name : ---------------------------------------- x
x               Attendant Group Manager : -1                                x
x                            Priority + NO                                  x
x               Emergency call to attd + NO                                 x
x                   Traffic Overflow + Disallowed                          x
x               Installation No. (ISDN) : 492284225921                      x
x        Supplement.Install.No. (ISDN) : 0                                  x
x                    Caller ID Secret + No                                  x
x        AdvOfCharg2 requests (AOC2) + NO                                   x
x        AdvOfCharg3 requests (AOC3) + NO                                   x
x                      Auto. Locking : 0                                    x
x        Voice Mail Box No.for attendt : --------                          x
x                    Trunk Group ID : 0                                     x
x               External Callback Table : 0                                 x
x                                                                           x
```

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Route-List:

```
lqReview/Modify: ARS Routeqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x              Node Number (reserved) : 101                                    x
x                 Instance (reserved) : 1                                      x
x                 Instance (reserved) : 1                                      x
x                     ARS Route list : 10                                      x
x                             Route : 1                                        x
x                                                                              x
x                             Name : DT-SIP                                    x
x           Trunk Group Source + Route                                         x
x                     Trunk Group : 10                                         x
x         No.Digits To Be Removed : 1                                          x
x                   Digits To Add : 49                                         x
x       Numbering Command Tabl. ID : 10                                        x
x                  VPN Cost Limit : 0                                          x
x                   Protocol Type + Dependant on Trunk Group Type             x
x                  NPD identifier : 100                                        x
x                      Route Type + Public                                     x
x                  ATM Address ID : -1                                         x
x                      Preempter + False                                       x
x                                                                              x
x                             Quality                                          x
x                                                                              x
x         [  Add   ]      [ Remove ]     [  Next  ]     [Previous]             x
x                                                                              x
x                         Quality + Speech                                     x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

- Quality muss Speech and FAX haben
- Time Based Route List nicht vergessen
- Ggf. weitere Routen einrichten für International Call, Ortsnetz Call

Dialling Command Table:

```
lqReview/Modify: Numbering Command Tableqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x             Node Number (reserved) : 101                                     x
x                Instance (reserved) : 1                                       x
x                Instance (reserved) : 1                                       x
x                           Table ID : 10                                      x
x                                                                              x
x                 Carrier Reference : 0                                        x
x                           Command : I                                        x
x        Associated Ext SIP gateway : 10                                       x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

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External Call Back Translator:

```
      lq[ 2 ] Instances: Ext.Callback Translation Rulesqk
x                                                          x
x  -> A                                                    x
x     DEF                                                  x
x                                                          x
      mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

External SIP Gateway:

```
lqReview/Modify: SIP Ext Gatewayqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                             x
x           Node Number (reserved) : 101                                     x
x                Instance (reserved) : 1                                      x
x           SIP External Gateway ID : 10                                      x
x                                                                             x
x                      Gateway Name : Lancom                                  x
x                  SIP Remote domain : 192.168.178.1                          x
x                    PCS IP Address : -----------------------------------     x
x                   SIP Port Number : 5060                                    x
x                   Transport type + UDP                                      x
x                   Belonging Domain : 192.168.178.1                          x
x                    Registration ID : +492284225921                          x
x        Registration ID P_Asserted + True                                    x
x                 Registration timer : 480                                    x
x                 SIP Outbound Proxy : -----------------------------------    x
x                  Supervision timer : 0                                      x
x                 Trunk group number : 10                                     x
x                       Pool Number : -1                                      x
x                    Outgoing realm : 192.168.178.1                           x
x                 Outgoing username : +492284225921                           x
x                 Outgoing Password : ******                                  x
x                           Confirm : ******                                  x
x                                                                             x
x                  Incoming username : -----------------------------------    x
x                                                                             x
x                  Incoming Password : --------------------                    x
x                           Confirm : --------------------                     x
x                                                                             x
x  RFC 3325 supported by the distant + True                                   x
x                           DNS type + DNS A                                  x
x            SIP DNS1 IP Address : -----------------------------------        x
x            SIP DNS2 IP Address : -----------------------------------        x
x                        SDP in 18x + False                                   x
x     Minimal authentication method + SIP None                               x
x  INFO method for remote extension + False                                   x
x                           To EMS + False                                    x
x                             SRTP + RTP only                                 x
x        Ignore inactive/black hole + False                                   x
x           Contact with IP address + False                                   x
x      Dynamic Payload type for DTMF : 101                                    x
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```
x          Outbound Calls 100 REL + Supported                                 x
x          Incoming Calls 100 REL + Not Requested                             x
x                    Gateway type + Standard type                             x
x  Re-Trans No. for REGISTER/OPTIONS : 2                                      x
x     P-Asserted-ID in Calling Number + False                                 x
x        Trusted P-Asserted-ID header + True                                  x
x        Diversion Info to provide via  + History Info                        x
x Proxy identification on IP address + True                                   x
x             Outbound calls only + False                                     x
x         SDP relay on Ext. Call Fwd + Default                                x
x          SDP Transparency Override + False                                  x
x RFC 5009 supported / Outbound call + Not Supported                          x
x            Nonce caching activation + NO                                    x
x                 FAX Procedure Type + G711 only                             x
x   DNS SRV/Call retry on busy server : 0                                     x
x         Unattended Transfer for RSI + NO                                    x
x          Redirection functionality + NO                                     x
x                Attended Transfer + NO                                      x
x              Send BYE on REFER + YES                                       x
x       Redirection response support + NO                                     x
x                                                                             x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
x              OPTIONS required + YES                                        x
x        Support UTF8 characters set + NO                                     x
x        CSTA User-to-User supported + NO                                     x
x           DDI destination number + ReqURI                                 x
x            Video Support Profile + Not Supported                          x
x     UPDATE in Allow header/INVITE + Optional                              x
x             RFC 4904 supported + NO                                       x
x      Bulk registration (RFC 6140) + NO                                     x
x             Trusted From header + False                                   x
x     Support Re-invite without SDP + True                                  x
x    Registration on proxy discovery + False                                 x
x          Type of codec negotiation + Default                              x
x                                                                             x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

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SIP Gateway:

```
lqReview/Modify: SIP Gatewayqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x                Node Number (reserved) : 101                                 x
x                     Instance (reserved) : 1                                 x
x                     Instance (reserved) : 1                                 x
x                                                                              x
x                     SIP Subnetwork : 10                                     x
x                    SIP Trunk Group : 0                                      x
x                         IP Address : 192.168.178.10                         x
x              Machine name - Host : node1                                    x
x              SIP Proxy Port Number : 5060                                   x
x         SIP Subscribe Min Duration : 1800                                   x
x         SIP Subscribe Max Duration : 86400                                  x
x                     Session Timer : 1800                                    x
x                 Min Session Timer : 900                                     x
x              Session Timer Method + RE_INVITE                               x
x         DNS local domain name : ---------------------------------------- x
x                         DNS type + DNS A                                    x
x             SIP DNS1 IP Address : ---------------------------------------- x
x             SIP DNS2 IP Address : ---------------------------------------- x
x                     SDP in 18x + False                                      x
x                    Cac SIP-SIP + False                                      x
x     INFO method for remote extension + False                               x
x         Dynamic Payload type for DTMF : 101                                 x
x             Overflow Licenses Threshold : 80                                x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

SIP Proxy:

```
lqReview/Modify: SIP Proxyqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x                Node Number (reserved) : 101                                 x
x                     Instance (reserved) : 1                                 x
x                     Instance (reserved) : 1                                 x
x                                                                              x
x                SIP initial time-out : 500                                   x
x                     SIP timer T2 : 4000                                     x
x                 Dns Timer overflow : 5000                                   x
x                         Timer TLS : 30                                      x
x                 Recursive search + False                                    x
x         Minimal authentication method + SIP Digest                         x
x                 Authentication realm : ---------------------------------- x
x Only authenticated incoming calls + False                                  x
x                 Framework Period : 3                                        x
x     Framework Nb Message By Period : 25                                     x
x         Framework Quarantine Period : 1800                                  x
x             TCP when long messages + False                                  x
x Retransmission number for INVITE : 3                                        x
x         Degraded mode Time To Live : 1800                                   x
x             User Agent Identifier : %                                       x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

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---ENDE des Dokuments---

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